

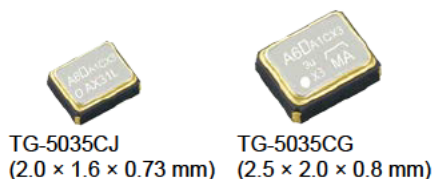
TCXO/VC-TCXO
For Automotive, HIGH STABILITY



Product Number
TG-5035CJ :X1G003841Axxx00
TG-5035CG :X1G003851Axxx00

TG-5035CJ
TG-5035CG

- Frequency range : 25 MHz ~ 52 MHz (TG-5035CJ)
- Supply voltage : 1.8 V Typ./ 2.8 V Typ./ 3.0 V Typ./ 3.3 V Typ.
- Frequency / temperature characteristics : $\pm 0.5 \times 10^{-6}$ Max or $\pm 2.0 \times 10^{-6}$ Max.
- Applications : Car navigation system, GPS
- Features : High stability, Stand-by function (\overline{ST})
- Conforms to AEC-Q200



Specifications (characteristics)

| Item | Symbol | VC-TCXO | TCXO | TCXO-Standby | Conditions / Remarks |
|---------------------------------------|--------------|---|------|-------------------|--|
| Output frequency range | f_o | 26 MHz, and 38.4 MHz | | | Standard frequency |
| | | 25.000 MHz ~ 52.000 MHz | | | |
| Supply voltage | V_{cc} | 1.8 V ± 0.1 V / 2.8 V $\pm 5\%$ / 3.0 V $\pm 5\%$ / 3.3 V $\pm 5\%$ | | | Supply voltage Range :1.7 V to 3.6 V |
| Storage temperature | T_{stg} | -40 C to +90 C | | | Storage as single product. |
| Operating temperature | T_{use} | -40 C to +85 C | | | |
| Frequency tolerance | f_{tol} | $\pm 1.5 \times 10^{-6}$ Max. | | | After reflow, +25 C |
| Frequency/temperature characteristics | f_o-T_c | $\pm 0.5 \times 10^{-6}$ Max. / -40 C to +85 C | | | High stability version (for GPS) |
| | | $\pm 2.0 \times 10^{-6}$ Max. / -40 C to +85 C | | | Standard stability version |
| Frequency/load coefficient | f_o-Load | $\pm 0.2 \times 10^{-6}$ Max. | | | 10 k Ω // 10 pF $\pm 10\%$ |
| Frequency/voltage coefficient | f_o-V_{cc} | $\pm 0.2 \times 10^{-6}$ Max. | | | $V_{cc} \pm 5\%$ |
| Frequency aging | f_{age} | $\pm 1.0 \times 10^{-6}$ Max. | | | +25 C, First year, $f_o \leq 40$ MHz |
| | | $\pm 1.5 \times 10^{-6}$ Max. | | | +25 C, First year, 40 MHz < $f_o \leq 52$ MHz |
| Current consumption | I_{cc} | 1.5 mA Max. | | | $f_o \leq 26$ MHz |
| | | 2.0 mA Max. | | | 26 MHz < $f_o \leq 52$ MHz |
| Stand-by current | I_{std} | — | | 10 μ A Max. | $\overline{ST} = GND$ |
| Input voltage | V_{IH} | — | | 80% V_{cc} Min. | \overline{ST} terminal |
| | V_{IL} | — | | 20% V_{cc} Max. | |
| Input resistance | R_{in} | 500 k Ω Min. | | — | $V_{cc} - GND$ (DC) |
| Frequency control range | f_{cont} | $\pm 8.0 \times 10^{-6}$ to $\pm 15.0 \times 10^{-6}$ | | — | $V_c = 0.9 V \pm 0.6 V$ ($V_{cc} = 1.8 V$) or $V_c = 1.4 V \pm 1.0 V$ ($V_{cc} = 2.8 V$) or $V_c = 1.5 V \pm 1.0 V$ ($V_{cc} = 3.0 V$) or $V_c = 1.65 V \pm 1.0 V$ ($V_{cc} = 3.3 V$) |
| Frequency change polarity | — | Positive polarity | | — | |
| Symmetry | SYM | 40 % to 60 % | | | GND level (DC cut) |
| Output voltage | V_{PP} | 0.8 V Min. | | | Peak to Peak |
| Start-up time | t_{str} | 2.0 ms Max. | | | $T=0$ at 90% V_{cc} |
| Output load condition | Load_R | 10 k Ω | | | DC cut capacitor = 0.01 μ F |
| | Load_C | 10 pF | | | |

* Note : Please contact us for requirements not listed in this specification.

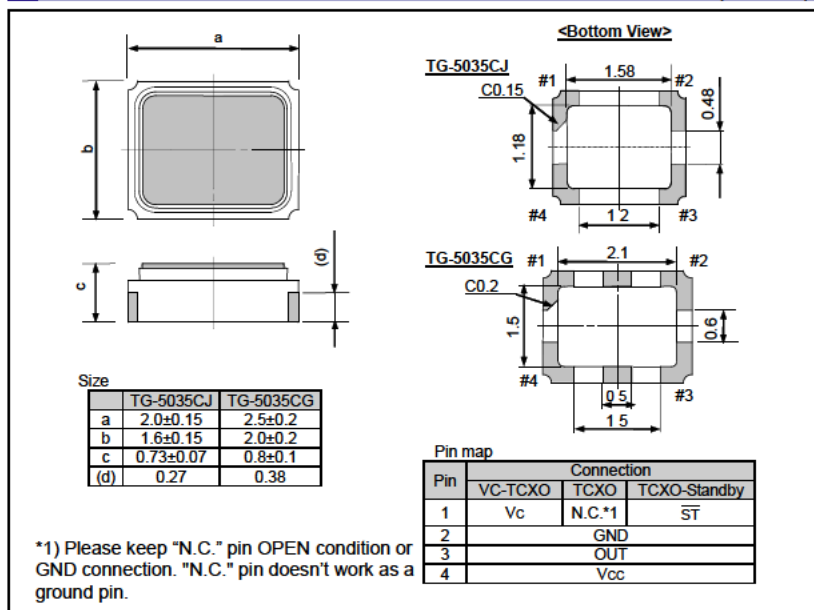
Product Name TG-5035 CJ-*** 26.000000MHz
(Standard form) ① ② ③ ④
①Model ②Package type ③Spec segment (Please contact us) ④Frequency

External dimensions

(Unit:mm)

Footprint (Recommended)

(Unit:mm)



*1) Please keep "N.C." pin OPEN condition or GND connection. "N.C." pin doesn't work as a ground pin.

